

CLAIMS

What is claimed is:

1. A method for datatype caching of an SQL template with references, comprising:
 - converting the SQL template into a converted SQL template with an associated cast function;
 - acquiring a datatype of the converted SQL template; and
 - storing the datatype of the converted SQL template with the SQL template.
2. The method of claim 1, wherein converting the SQL template comprises replacing tokens in the SQL template with the associated cast function.
3. The method of claim 2, further comprising forming a valid SQL statement from the converted SQL template.
4. The method of claim 3, wherein forming the valid SQL template comprises acquiring the datatype of the valid SQL statement.
5. The method of claim 4, wherein acquiring the datatype of the converted SQL statement comprises passing the valid SQL statement through an SQL processor.
6. The method of claim 1, further comprising inquiring if a descendent of the converted SQL template has been modified.

7. The method of claim 6, wherein if the descendent of the converted SQL template has been modified, re-evaluating an SQL template for the descendent and cascading a modified datatype up to ancestors of the converted SQL template.

8. A computer program product having instruction codes for datatype caching of an SQL template with references, comprising:

a first set of instruction codes for converting the SQL template into a converted SQL template with an associated cast function;

a second set of instruction codes for acquiring a datatype of the converted SQL template; and

a third set of instruction codes for storing the datatype of the converted SQL template with the SQL template.

9. The computer program product of claim 8, wherein the of instruction codes replaces tokens in the SQL template with the associated cast function.

10. The computer program product of claim 9, further comprising a fourth set of instruction codes for forming a valid SQL statement from the converted SQL template.

11. The computer program product of claim 10, wherein the fourth set of instruction codes acquires the datatype of the valid SQL statement.

12. The computer program product of claim 11, wherein the fourth set of instruction codes passes the valid SQL statement through an SQL processor.

13. The computer program product of claim 8, further comprising a fifth set of instruction codes for inquiring if a descendent of the converted SQL template has been modified.

14. The computer program product of claim 13, wherein if the descendent of the converted SQL template has been modified, the fifth set of instruction codes re-evaluates an SQL template for the descendent and cascades a modified datatype up to ancestors of the converted SQL template.

15. A system for datatype caching of an SQL template with references, comprising:

means for converting the SQL template into a converted SQL template with an associated cast function;

means for acquiring a datatype of the converted SQL template; and

means for storing the datatype of the converted SQL template with the SQL template.

16. The system of claim 15, wherein the means for converting the SQL template comprises means for replacing tokens in the SQL template with the associated cast function.

17. The system of claim 16, further comprising means for forming a valid SQL statement from the converted SQL template.

18. The system of claim 17, wherein the means for forming the valid SQL template comprises means for acquiring the datatype of the valid SQL statement.

19. The system of claim 18, wherein the means for acquiring the

datatype of the converted SQL statement comprises means for passing the valid SQL statement through an SQL processor.

20. The system of claim 15, further comprising means for inquiring if a descendent of the converted SQL template has been modified; and

further comprising means for re-evaluating an SQL template for the descendent and for cascading a modified datatype up to ancestors of the converted SQL template if the descendent of the converted SQL template has been modified.